

Reply to Office Action of November 27, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A door apparatus for a drawer of a drawer type refrigerator, the door apparatus comprising:
 - a door with a thermally isolating layer;
 - a frame coupled to a rear of the door such that the frame slidably moves together with the door relative to a main body of the refrigerator, wherein the frame defines a storage space that receives items to be stored;
 - a coupler that rotatably couples a lower end of the door to a lower front end of the frame ~~so as to allow and~~ allows the door to rotate through a predetermined angle with respect to the frame from a first, substantially vertical position to a second, tilted position; and
 - a rotation limiter that selectively limits ~~an angle of a~~ rotation of the door with respect to the frame, wherein the rotation limiter is positioned at a predetermined distance upward from an axis of rotation of the door, wherein the rotation limiter comprises:
 - at least one locking portion provided on ~~one of the door or the frame~~; and
 - at least one corresponding tilting lock provided on ~~the other of the door or the frame~~, wherein ~~the at least one tilting lock is selectively and elastically deformed by the at least one locking portion as the door rotates with respect to the frame between the first and second~~

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positions when the door is tilted, the locking portion and the corresponding tilting lock are disengaged.

2. (Cancelled)

3. (Currently Amended) The door apparatus as claimed in claim 1, wherein each of the ~~at least one~~ tilting locks comprises:

a base plate;

an elastically-deformable resilient piece ~~connected to~~ that extends from one end of the base plate, with a lower surface of the resilient piece positioned a predetermined distance apart from a corresponding upper surface of the base plate; and

a locking step ~~provided~~ formed on an upper surface of the resilient piece so as to be caught by the locking portion when a force smaller than a force required for elastically deforming the resilient piece is applied.

4. (Previously Presented) The door apparatus as claimed in claim 3, further comprising a spacer positioned between the base plate and the resilient piece, wherein the spacer limits movement of the resilient piece relative to the base plate.

5-22. (Cancelled)

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23. (Previously Presented) The door apparatus as claimed in claim 1, wherein the rotation limiter fixes the door in the first, substantially vertical, position relative to the frame when the at least one locking portion and at least one corresponding tilting lock are engaged.

24. (Currently Amended) The door apparatus as claimed in claim 23, wherein the rotation limiter allows substantially unlimited rotation of the door to rotate freely between the first and second positions when the ~~at least one~~ locking portion and ~~at least one~~ corresponding~~the~~ tilting lock are disengaged.

25. (Currently Amended) The door apparatus as claimed in claim 24, wherein the tilting lock is selectively and elastically deformed by the locking portion as the door rotates with respect to the frame between the first and second positions, and the at least one locking portion and at least one the corresponding tilting lock are disengaged when a force applied to the resilient piece is great enough to deform the resilient piece.

26. (Cancelled)

27. (Previously Presented) A door apparatus for a drawer for a drawer type refrigerator, the door apparatus comprising:

a frame slidably coupled to a main body of a refrigerator;

a door rotatably coupled to a front end of the frame so as to move together with the frame;

rotating means for coupling the door and the frame; and

rotation limiting means for selectively limiting rotation of the door relative to the frame, comprising:

locking portions; and

tilting locks selectively and elastically deformed by the locking portions, wherein the locking portions and the tilting locks are provided at corresponding positions on the frame and the door, wherein each of the tilting locks comprises:

a base plate;

an elastically deformable resilient piece connected to one end of the base plate and spaced apart from an upper surface of the base plate;

a locking step provided on an upper surface of the resilient piece, wherein the locking step is configured to be caught by a locking portion when a force smaller than a force required for elastically deforming the resilient piece is applied; and

a spacer inserted into a space formed between the base plate and the resilient piece, wherein the spacer limits an amount of elastic deformation of the resilient piece.

28. (Previously Presented) The door apparatus as claimed in claim 27, wherein the rotation limiter fixes the door in a substantially vertical position relative to the frame when the at

least one locking portion and at least one corresponding tilting lock are engaged and the locking portion is positioned on a first side of the at least one locking step, and wherein the rotation limiter allows the door to rotate relative to the frame when the at least one locking portion and at least one corresponding tilting lock are disengaged and the locking portion is positioned on a second side of the at least one locking step.

29. (Previously Presented) The door apparatus as claimed in claim 28, wherein the spacer prevents the at least one locking portion from moving from the first side to the second side of the locking step.

30. (Previously Presented) A door apparatus for a drawer for a drawer type refrigerator, the door apparatus comprising:

a frame slidably coupled to a main body of a refrigerator;

a door rotatably coupled to a front end of the frame; and

a rotation limiter that selectively limits rotation of the door relative to the frame, wherein the rotation limiter comprises an elastically deformable locking mechanism that selectively engages the door and the frame, wherein the locking mechanism includes a spacer inserted into opposing faces of the locking mechanism to limit an amount of elastic deformation of the locking mechanism.